



Appln No.: 09/639,207
Applicant(s): Parsa Kazemi-Esfarjani et al.
AN ANIMAL MODEL OF POLYGLUTAMINE TOXICITY,
METHODS OF USE, AND MODULATORS OF
POLYGLUTAMINE TOXICITY

20CAGHA

CTGCAGGCCAGCGTCCTGATAAGTGAATTTCGCCGCCACCATGGGAG
GCCCACCGTCAACCCCCCAGCAGCAGCAACAGCAGCAGCAACAGCA
ACAGCAGCAGCAACAACAGCAGCAGCAACAGACTAGTCGTACGTAT
CCCTATGACGTGCCCCGACTATGCGTAG

127CAGHA

CTGCAGGCCAGCGTCCTGATAAGTGAATTTCGCCGCCACCATGGGAG
GCCCACCGTCAACCCCCCAGCAGCAGCAACAGCAGCAGCAACAGCA
ACAGCAGCAGCAACAACAGCAGCAGCAACAGCAACAGCAGCAGCAA
CAACAGCAGCAGCAACAGCAACAGCAGCAGCAACAGCAGCAGCAAC
AGCAACAGCAGCAGCAACAACAGCAGCAGCAACAGCAACAGCAGCA
GCAACAACAGCAACAACAACAGCAACAGCAGCAGCAACAGCAGCAG
CAACAGCAACAGCAGCAGCAACAACAGCAGCAGCAACAGCAACAGC
AGCAGCAACAACAGCAGCAGCAACAGCAACAGCAGCAGCAACAGCA
GCAGCAACAGCAACAGCAGCAGCAACAACAGCAGCTGCAACAGCAA
CAGCAGCAGCAACAACAGCAGCAGCAACAGACTAGTCGTACGTATC
CCTATGACGTGCCCCGACTATGCGTAG

FIG. 1A

20QHA

MGGPPSTPQ₂₀TSRTYPYDVDPDYA

127QHA

MGGPPSTPQ₁₂₇TSRTYPYDVDPDYA

FIG. 1B



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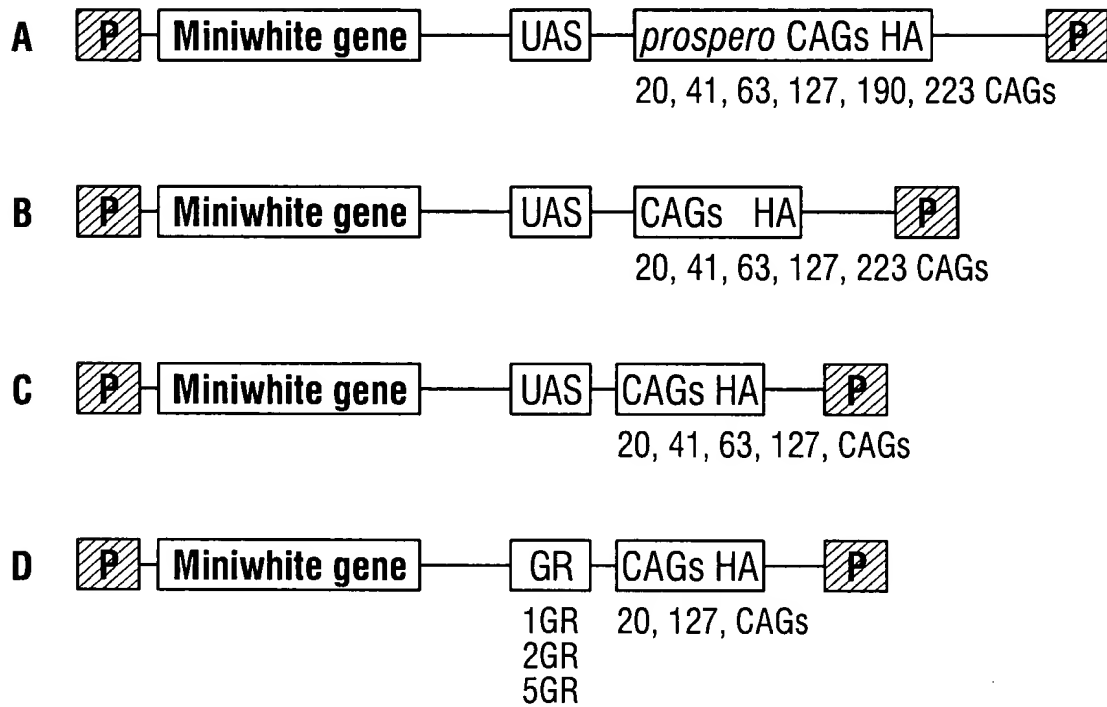
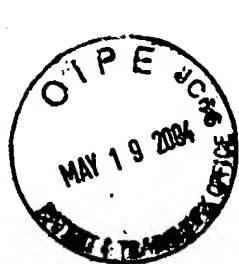


FIG. 2



Generation of P-element insertion and screening for modifiers

M P[Δ2-3]/P[Δ2-3] **X F** EP55/EP55

↓

M EP55/Y;;P[Δ2-3]/+ **X F** w/w

↓

M w/Y;pEP/+;+ **or** w/Y;+;pEP/+ **X F** w;GMR/CyO;127Q/127Q

↓

Progeny screened for eye phenotype

Isolation of the new P-element insertion (pEP=suppressor or enhancer)

M (GMR;127Q)/pEP **X F** (CyO;TM3)/Xa

↓

M GMR/CyO;pEP/TM3 **X F** w1118

↓

M GMR;TM3 **or** CyO;pEP **X F** w;GMR/CyO;127Q/127Q to test

X F (CyO;TM3)/Xa to establish line

↓

M +/CyO;pEP/TM3 **X F** +/CyO;pEP/TM3

↓

pEP/TM3 **or** pEP/pEP established lines

FIG. 3